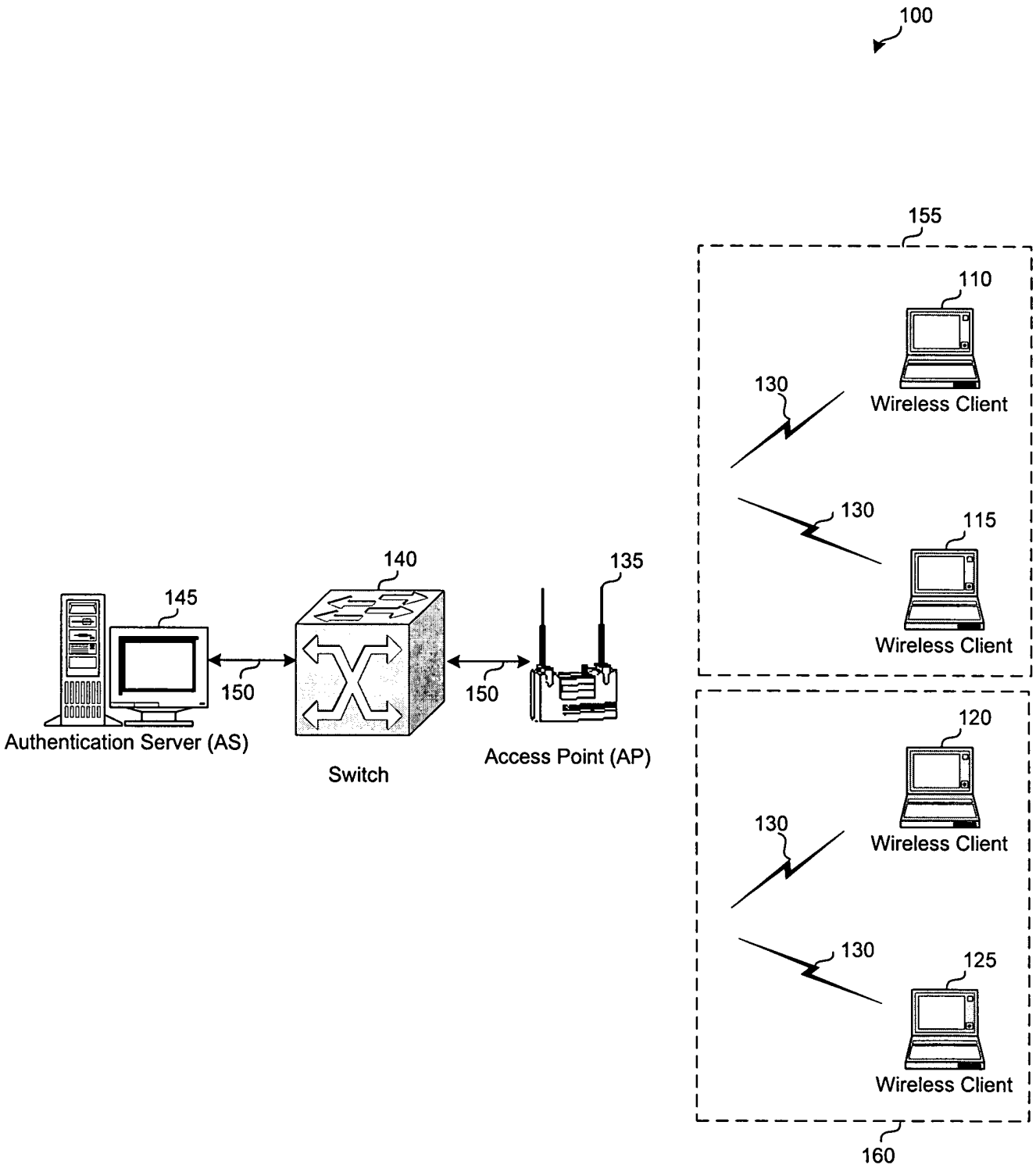
100
155
110
130
Wireless Client
130
115
Wireless Client
140
135
145
150
150
Authentication Server (AS)
Switch
Access Point (AP)
120
130
Wireless Client
130
125
Wireless Client
160

Figure 1

Current extension for 802.11 Packet Names

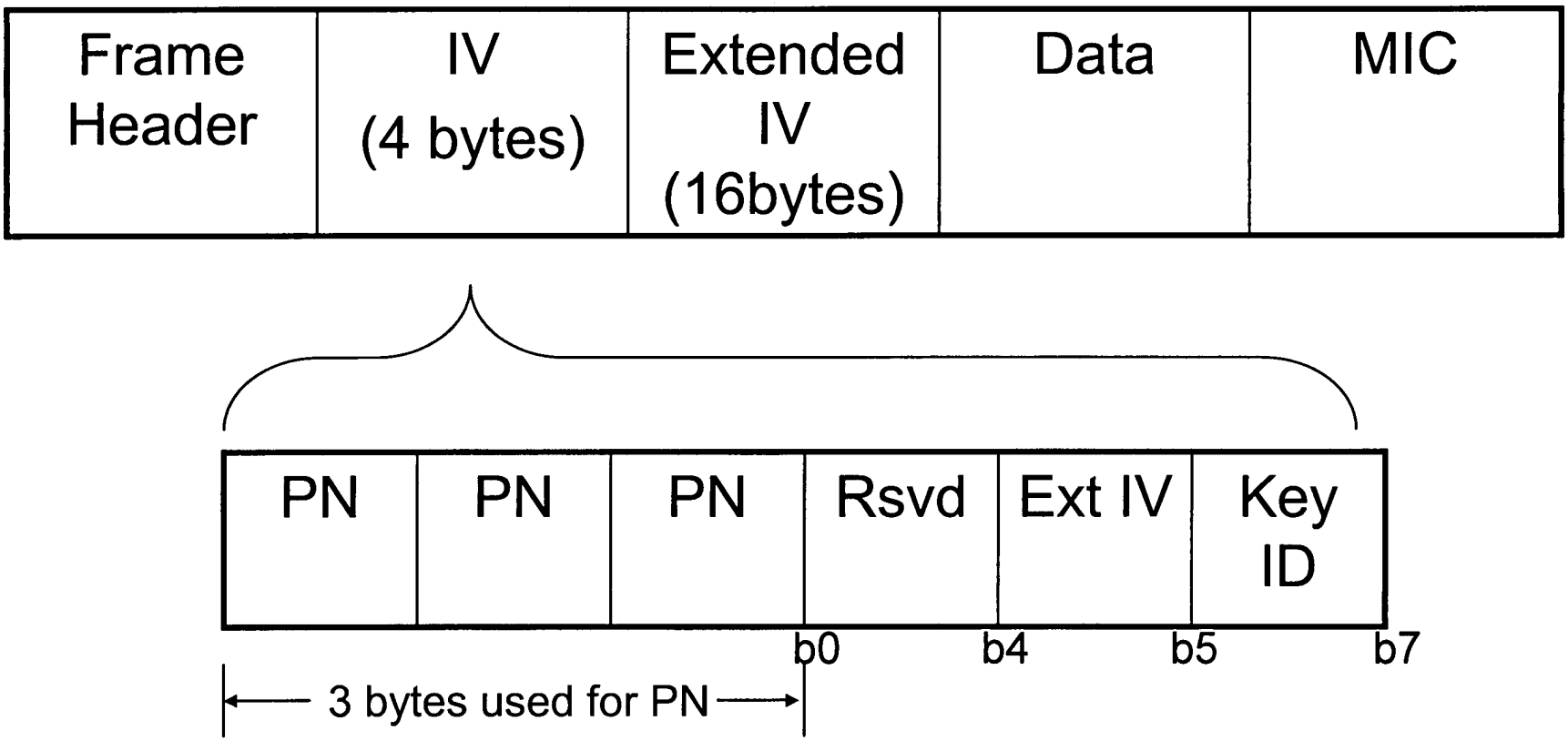

Figure 2

Proposed Extension for 802.11 Packet Names

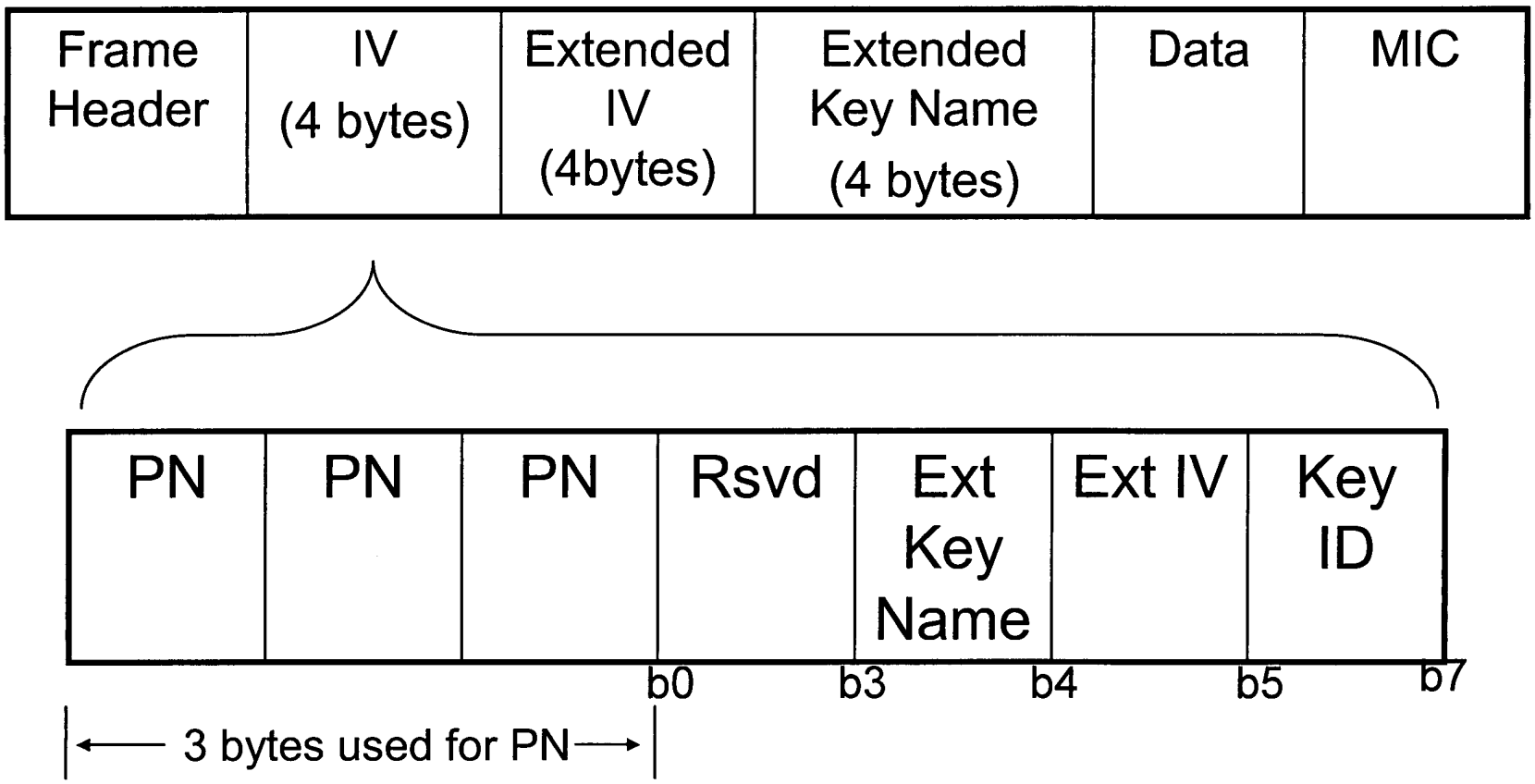

Figure 3

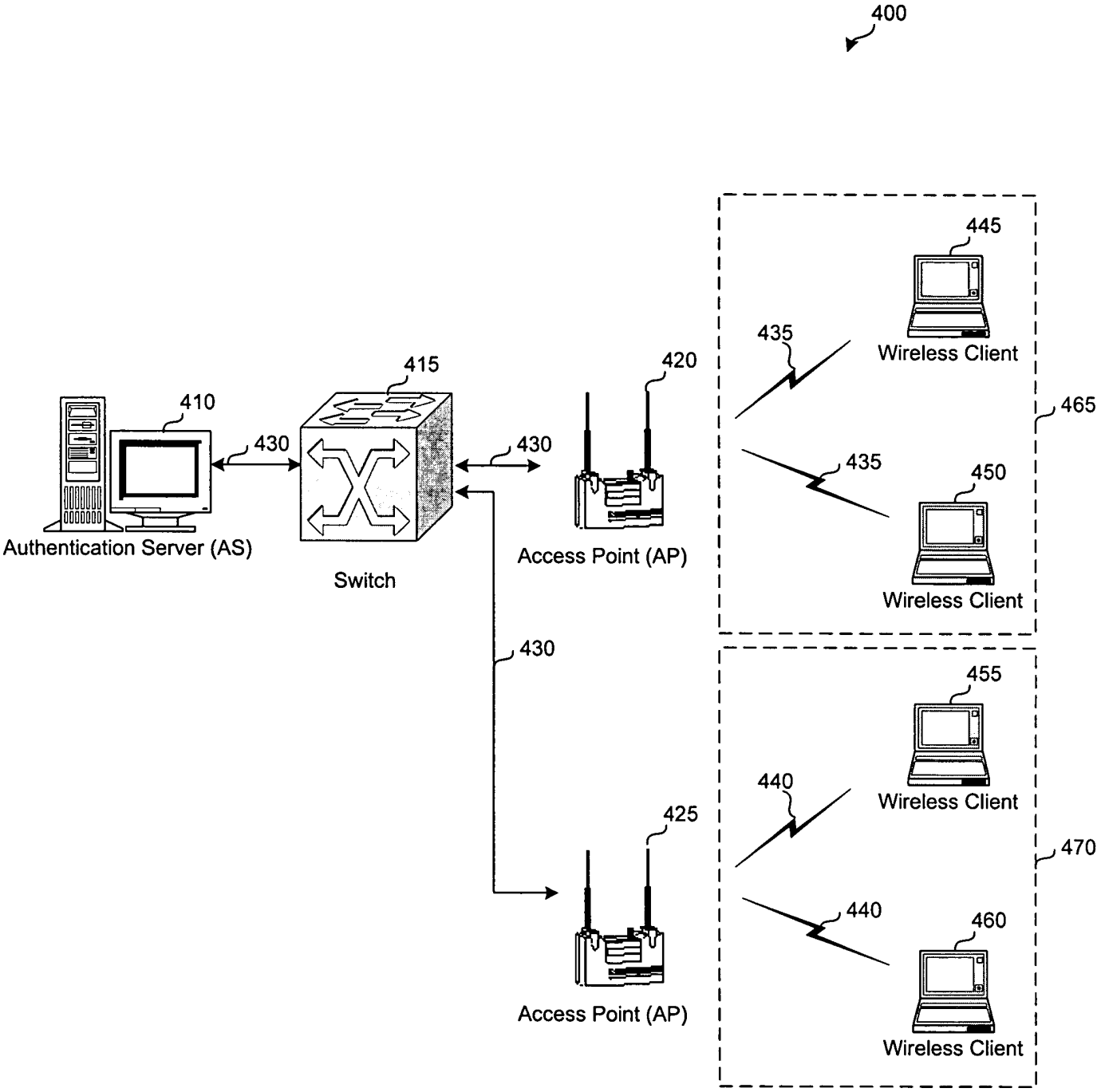
400
445
Wireless Client
435
465
435
450
Wireless Client
415
420
410
430
430
Authentication Server (AS)
Switch
Access Point (AP)
430
455
Wireless Client
440
470
425
440
460
Wireless Client
Access Point (AP)

Figure 4

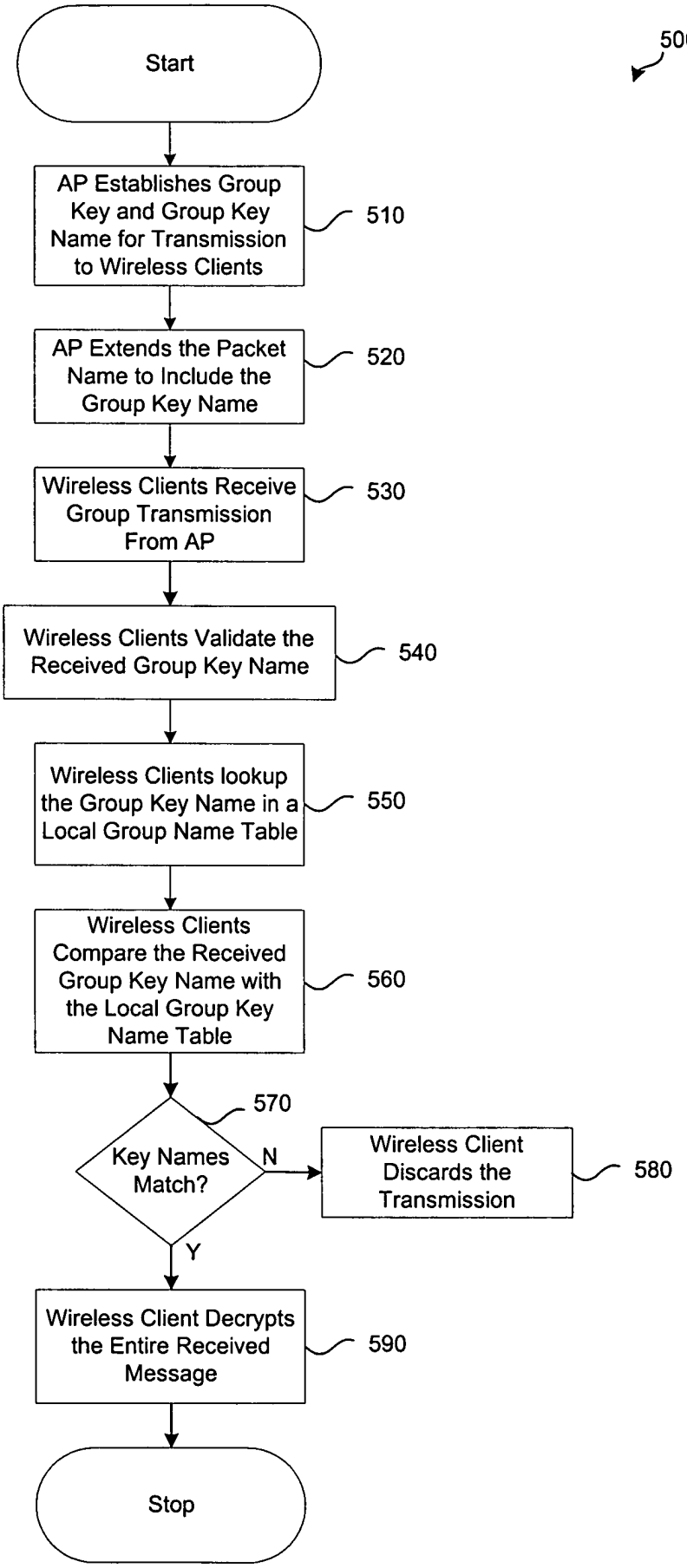
500
Start
AP Establishes Group Key and Group Key Name for Transmission to Wireless Clients
510
AP Extends the Packet Name to Include the Group Key Name
520
Wireless Clients Receive Group Transmission From AP
530
Wireless Clients Validate the Received Group Key Name
540
Wireless Clients lookup the Group Key Name in a Local Group Name Table
550
Wireless Clients Compare the Received Group Key Name with the Local Group Key Name Table
560
570
Key Names Match?
N
Wireless Client Discards the Transmission
580
Y
Wireless Client Decrypts the Entire Received Message
590
Stop

Figure 5